SAFETY DATA SHEET



DIMETHYL DISULFIDE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	624-92-0
EC number:	210-871-0
1.2 SYNONYMS:	Methyl disulfideDimethyl sulfide disulfide
	 Dimethyl Disulfide Methanedisulfide Sulfurous acid, dimethyl ester DMDS

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements: YOUR CHEM	Labelling according to Regulation (EC) No 1272/2008 Flammable liquids, (Category 2) Acute toxicity, oral (Category 3) Acute toxicity, inhalation (Category 3) Eye irritation, (Category 2) Skin sensitization, (Category 1) Specific target organ toxicity - single exposure, Upper respiratory tract (Category 1), Specific target organ toxicity - single exposure, Central nervous system (Category 3), Short-term (acute) aquatic
	hazard, (Category 1) Long-term (chronic) aquatic hazard, (Category 1)



Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H225: Highly flammable liquid and vapor. H301 + H331: Toxic if swallowed or if inhaled. H317: May cause an allergic skin
	reaction. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H370: Causes damage to organs (Upper respiratory tract) if inhaled. H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statements:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/ eye protection/face protection. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	P303 + P361 + P353: IF ON SKIN (or
YOUR CHEM	hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P311: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. P391: Collect spillage. P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal plant.



2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, dizziness, nausea, and in severe cases, damage to the respiratory system.
Ingestion:	can lead to nausea, vomiting, abdominal pain, diarrhea, and potential damage to the digestive system.
Skin Contact:	can cause irritation, redness, and potentially allergic reactions or burns with prolonged exposure.
Eye contact:	can cause severe irritation, redness, pain, and potential damage to the cornea.
Chronic Exposure:	can lead to respiratory issues, liver and kidney damage, and prolonged skin or eye irritation.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as asthma, respiratory disorders, skin sensitivities, or liver and kidney disease.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 624-92-0
	DIMETHYL DISULFIDE
Identification number(s):	EC number: 210-871-0

SECTION 4: First aid measures

4.1 Description of first aid	
measures	
General information:	
After inhalation:	If breathed in, move person into
	fresh air. If not breathing, give



After skin contact: After eye contact:	artificial respiration. Consult a physician. Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician. Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure can cause respiratory irritation, nausea, dizziness, and eye or skin irritation, while chronic exposure may lead to liver and kidney damage, as well as long-term respiratory issues.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam.
5.2 Special hazards arising from	Carbon oxides, sulphur oxides.
the substance or mixture:	
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a
YOUR CHEMI	fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.



	Protect containers against physical
	damage and check regularly for
	leaks. Store in a dry and dark area.
	Keep away fro moisture.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
	Containers which are opened must
	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
Protection of hands:	Respiratory protection: Required. Handle with gloves. Gloves must be
YOUR CHEMI	inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required



Protection of Body:	Complete suit protecting against
	chemicals, Flame retardant
	antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	. 13/0
and chemical properties	
General Information	
Appearance: Form:	Liquid
Colour:	Colourless to pale yellow
Odour:	Strong, sullfur like odor
pH-value:	Not applicable
Melting point/Melting range:	-60°C
Boiling point/Boiling range:	188°C
Flammability (solid, gaseous):	Flammable liquid
Ignition temperature:	240°C
Decomposition temperature:	Not specified
Self-igniting:	None
Flash point:	57°C
Danger of explosion:	None
Explosion limits: Lower:	1.4%
Explosion limits: Upper:	8.4%
Vapour pressure:	0.48 kPa at 20 °C
Density at 20 °C:	1.21 g/cm ³
Relative density:	1.21
Vapour density:	3.3
Evaporation rate:	No data available
Solubility in / Miscibility with-	Slightly Soluble
·water at 20 °C:	
Partition coefficient:(n-	2.5
octanol/water)	
Viscosity:	0.91 cP at 20 °C



SECTION 10: Stability and reactivity

10.1 Reactivity	Reactive and can react with strong oxidizing agents, acids, and bases.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can cause dangerous reactions with strong oxidizing agents, strong acids and bases.
10.4 Conditions to avoid	Heat, flames, sparks.
10.5 Incompatible materials	Strong reducing agents, strong acids, bases.
10.6 Hazardous decomposition products	Carbon monoxides, sulfur oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 190 mg/kg LD50 (Dermal, Rabbit): no data available LC50 (Inhalation Rat): 5 mg/l (4 hr)
Skin corrosion/Irritation:	Causes Mild skin irritation
Serious eye damage/irritation:	Causes Eye irritation
Respiratory damage/irritation:	Causes serious respiratory irritation.
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	Can cause damage to respiratory system and central nervous system.
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability	Moderately Biodegradable



SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 0.97 mg/l (96 hr)
Aquatic toxicity:	EC50(daphnia): 1.82 mg/l (48 hr)
	ErC50(algae): 6.7 mg/l (96hr)
12.2 Persistence and	Moderately Biodegradable
degradability:	
12.3 Bioaccumulative potential:	Not bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Water, water and soap, isopropyl
	alcohol, acetone.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	2381
IMDG, IATA:	
14.2 UN proper shipping name ·	DIMETHYL DISULFIDE
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	6.1
ADR, ADN, IMDG, IATA :	
14.4 Packing group · ADR, IMDG,	2
IATA:	
14.5 Environmental hazards:	Yes, harmful to aquatic life
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is classified in listed
regulations/legislation specific	substances as flammable liquids.
for the substance or mixture	·
Directive 2012/18/EU	



Named dangerous substances:	This substance is listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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